CLAIMS OF AMENDMENT UNDER ARTICLE 19, PCT

[Received by International Bureau on 26, May 2005: Claims 1,7,13,20,27,33,42,43 and 44 as originally filed was amended;

5   the other claims remain unchanged.]

1. (amended)   A moving picture reception/decoding device decoding a bit stream encoded by a moving picture encoding/transmission device using a predetermined moving picture compression encoding method, characterized in that said

5   moving picture reception/decoding device comprises:

a control information creating unit that creates control information for controlling the operation of said moving picture encoding/transmission device, irrespective of occurrence/nonoccurrence of the image quality deterioration

10   caused by transmission error; and

a control information transmitting unit that transmits said control information to said moving picture encoding/transmission device.

2.   The moving picture reception/decoding device as defined in claim 1 wherein said control information creating unit creates said control information at a predetermined interval.

3.   The moving picture reception/decoding device as defined in claim 1 or 2 wherein said control information creating unit uses a message specified by the ITU-T recommendation H.245 as said control information.

4.   The moving picture reception/decoding device as defined in claim 1 or 2 wherein said control information creating unit uses videoFastUpdate commands specified by the ITU-T recommendation H.245 as said control information.

5.   The moving picture reception/decoding device as defined in claim 1 or 2 wherein said control information creating unit uses a method specified by RFC3261 SIP (Session Initiation Protocol) as said control information.

6.   The moving picture reception/decoding device as defined in claim 1 or 2 wherein said control information creating unit uses the INFO method specified by RFC3261 SIP as said control information.

7. (amended)   A moving picture encoding/transmission device encoding video signals using a predetermined moving picture compression encoding method, transmitting a bit stream, characterized by comprising:

5   a control information receiving unit that receives control information for controlling the operation of said moving picture encoding/transmission device, said control information being created/transmitted, irrespective of occurrence/nonoccurrence of the image quality deterioration caused by transmission error;

10   a control information analyzing unit that analyzes said control information and outputs encoding control information for controlling said encoding, and

a moving picture encoding unit that executes said

encoding according to said encoding control information.

8.   The moving picture encoding/transmission device as defined in claim 7 wherein said moving picture encoding unit encodes at least a part of frames in an intra-frame encoding mode according to said encoding control information.

9.   The moving picture encoding/transmission device as defined in claim 7 or 8 wherein said control information analyzing unit is able to analyze a message specified by the ITU-T recommendation H.245 as said control information.

10.   The moving picture encoding/transmission device as defined in claim 7 or 8 wherein said control information analyzing unit is able to analyze videoFastUpdate commands specified by the ITU-T recommendation H.245 as said control information.

11.   The moving picture encoding/transmission device as defined in claim 7 or 8 wherein said control information analyzing unit is able to analyze a method specified by RFC 3261 recommendation SIP as said control information.

12.   The moving picture encoding/transmission device as defined in claim 7 or 8 wherein said control information analyzing unit is able to analyze the INFO method specified by RFC 3261 recommendation SIP as said control information.

13. (amended)   A moving picture reception/decoding device decoding a bit stream encoded by a moving picture encoding/transmission device using a predetermined moving

picture compression encoding method, characterized by

5   comprising:

a control information creating unit that creates control information for controlling the operation of said moving picture encoding/transmission device, irrespective of occurrence/nonoccurrence of the image quality deterioration

10   caused by transmission error;

a control information transmitting unit that transmits said control information to said moving picture encoding/transmission device; and

a transmission band judging unit that outputs a control

15   information creating command for controlling said control information creating unit according to transmission band information calculated from received said bit stream.

14.   The moving picture reception/decoding device as defined in claim 13 wherein said transmission band judging unit outputs said control information creating command that instructs the operation interval of said control information creating unit to

5   be changed according to said transmission band information and said control information creating unit changes the interval at which it creates said control information according to said control information creating command.

15.   The moving picture reception/decoding device as defined in claim 13 wherein said transmission band judging unit outputs said control information creating command that instructs the

operation of said control information creating unit to be started

5   according to said transmission band information and said

control information creating unit creates said control

information only when it receives said control information

creating command.

16.   The moving picture reception/decoding device as defined

in any one of claims 13 to 15 wherein said control information

creating unit uses a message specified by the ITU-T

recommendation H.245 as said control information.

17.   The moving picture reception/decoding device as defined

in any one of claims 13 to 15 wherein said control information

creating unit uses videoFastUpdate commands specified by the

ITU-T recommendation H.245 as said control information.

18.   The moving picture reception/decoding device as defined

in any one of claims 13 to 15 wherein said control information

creating unit uses a method specified by RFC 3261

recommendation SIP as said control information.

19.   The moving picture reception/decoding device as defined

in any one of claims 13 to 15 wherein said control information

creating unit uses the INFO method specified by RFC 3261

recommendation SIP as said control information.

20. (amended)   A moving picture encoding/transmission

device encoding video signals using a predetermined moving

picture compression encoding method, and transmitting a bit

stream, characterized by comprising:

5   a control information receiving unit that receives control information for controlling the operation of said moving picture encoding/transmission device, said control information being created/transmitted, irrespective of occurrence/nonoccurrence of the image quality deterioration caused by transmission error;

10   a control information analyzing unit that analyzes said control information and outputs encoding control information for controlling said encoding;

        a moving picture encoding unit that executes said encoding according to said encoding control information; and

15   a transmission band judging unit that outputs an encoding control information creating command for controlling said control information analyzing unit according to transmission band information calculated from said transmitted bit stream.

21.   The moving picture encoding/transmission device as defined in claim 20 wherein said control information analyzing unit analyzes said control information and outputs said encoding control information only when it receives said

5   encoding control information creating command.

22.   The moving picture encoding/transmission device as defined in claim 20 or 21 wherein said moving picture encoding unit encodes at least a part of frames in an intra-frame encoding mode according to said encoding control information.

23.   The moving picture encoding/transmission device as defined in any one of claims 20 to 22 wherein said control

information analyzing unit is able to analyze a message

specified by the ITU-T recommendation H.245 as said control

5   information.

24.   The moving picture encoding/transmission device as

defined in any one of claims 20 to 22 wherein said control

information analyzing unit is able to analyze videoFastUpdate

commands specified by the ITU-T recommendation H.245 as

5   said control information.

25.   The moving picture encoding/transmission device as

defined in any one of claims 20 to 22 wherein said control

information analyzing unit is able to analyze a method

specified by RFC 3261 recommendation SIP as said control

5   information.

26.   The moving picture encoding/transmission device as

defined in any one of claims 20 to 22 wherein said control

information analyzing unit is able to analyze the INFO method

specified by RFC 3261 recommendation SIP as said control

5   information.

27. (amended)   A gateway interconnecting networks between

which a bit stream encoded by a moving picture

encoding/transmission device using a predetermined moving

picture compression encoding method is sent/received,

5   characterized by comprising:

a control information creating unit that creates control

information for controlling the operation of said moving picture

encoding/transmission   device,   irrespective   of

occurrence/nonoccurrence of the image quality deterioration

10 caused by transmission error; and

a control information transmitting unit that transmits said

control   information   to   said   moving   picture

encoding/transmission device.

28.   The gateway as defined in claim 27 wherein said control

information creating unit creates said control information at a

predetermined interval.

29.   The gateway as defined in claim 27 or 28 wherein said

control information creating unit uses a message specified by

the ITU-T recommendation H.245 as said control information.

30.   The gateway as defined in claim 27 or 28 wherein said

control   information   creating   unit   uses   videoFastUpdate

commands specified by the ITU-T recommendation H.245 as

said control information.

31.   The gateway as defined in claim 27 or 28 wherein said

control information creating unit uses a method specified by

RFC3261 recommendation SIP as said control information.

32.   The gateway as defined in claim 27 or 28 wherein said

control   information   creating   unit   uses   the   INFO   method

specified by RFC3261 recommendation SIP as said control

information.

33. (amended)   A gateway interconnecting networks between

which   a   bit   stream   encoded   by   a   moving   picture

encoding/transmission device using a predetermined moving

picture compression encoding method is sent/received,

5   characterized by comprising:

a control information creating unit that creates control

information for controlling the operation of said moving picture

encoding/transmission   device,   irrespective   of

occurrence/nonoccurrence of the image quality deterioration

10   caused by transmission error;

a control information transmitting unit that transmits said

control   information   to   said   moving   picture

encoding/transmission device; and

a transmission band judging unit that outputs a control

15   information creating command for controlling said control

information creating unit according to transmission band

information calculated from received said bit stream.

34. The gateway as defined in claim 33 wherein said

transmission band judging unit outputs said control information

creating command that instructs the operation interval of said

control information creating unit to be changed according to

5   said transmission band information, and said control

information creating unit changes the interval at which it

creates said control information according to said control

information creating command.

35. The gateway as defined in claim 33 wherein said

transmission band judging unit outputs said control information

creating command that instructs the operation of said control information creating unit to be started according to said
5   transmission band information; and

said control information creating unit creates said control information only when it receives said control information creating command.

36.   The gateway as defined in any one of claims 33 to 35 wherein said control information creating unit uses a message specified by the ITU-T recommendation H.245 as said control information.

37.   The gateway as defined in any one of claims 33 to 35 wherein said control information creating unit uses videoFastUpdate commands specified by the ITU-T recommendation H.245 as said control information.

38.   The gateway as defined in any one of claims 33 to 35 wherein said control information creating unit uses a method specified by RFC 3261 recommendation SIP as said control information.

39.   The gateway as defined in any one of claims 33 to 35 wherein said control information creating unit uses the INFO method specified by RFC recommendation 3261 SIP as said control information.

40.   A moving picture communication system configured by connecting the moving picture reception/decoding device as defined in any one of claims 1 to 6 and 13 to 19, and the

moving picture encoding/transmission device as defined in any

5   one of claims 7 to 12 and 20 to 26.

41.   A moving picture communication system including the

gateway as defined in any one of claims 27 to 39 and the

moving picture encoding/transmission device as defined in any

one of claims 7 to 12 and 20 to 26.

42. (amended)   A moving picture communication method by a

pair of a moving picture encoding/transmission device that

encodes video signals using a predetermined moving picture

compression encoding method and transmits a bit stream, and a

5   moving picture reception/decoding device that decodes the bit

stream, comprising:

a step where said moving picture reception/decoding

device creates control information for controlling the operation

of said moving picture encoding/transmission device,

10   irrespective of occurrence/nonoccurrence of the image quality

deterioration caused by transmission error, and transmits it to

said moving picture encoding/transmission device;

a step where said moving picture encoding/transmission

device analyzes said control information, outputs encoding

15   control information for controlling said encoding, and executes

said encoding according to said encoding control information;

and

a step where said moving picture reception/decoding

device decodes said bit stream encoded by said encoding

20   according to said encoding control information.

43. (amended)   A moving picture communication method by a

pair of a moving picture encoding/transmission device that

encodes video signals using a predetermined moving picture

compression encoding method and transmits a bit stream, and a

5   moving picture reception/decoding device that decodes the bit

stream, comprising:

a step where said moving picture reception/decoding

device creates control information for controlling the operation

of said moving picture encoding/transmission device,

10   irrespective of occurrence/nonoccurrence of the image quality

deterioration caused by transmission error, and transmits it to

said moving picture encoding/transmission device;

a step where said moving picture encoding/transmission

device analyzes said control information, outputs encoding

15   control information for controlling said encoding, and executes

said encoding according to said encoding control information;

and

a step where said moving picture reception/decoding

device decodes said bit stream encoded by said encoding

20   according to said encoding control information and feeds

transmission band information calculated from said received bit

stream back to the processing of creating control information;

wherein

said moving picture reception/decoding device requests

25   an image refresh operation corresponding to the reception band.

44. (amended)   A moving picture communication method by a

pair of a moving picture encoding/transmission device that

encodes video signals using a predetermined moving picture

compression encoding method and transmits a bit stream, and a

5   moving picture reception/decoding device that decodes the bit

stream, comprising:

        a step where said moving picture reception/decoding

device creates control information for controlling the operation

of said moving picture encoding/transmission device,

10   irrespective of occurrence/nonoccurrence of the image quality

deterioration caused by transmission error, and transmits it to

said moving picture encoding/transmission device;

        a step where said moving picture encoding/transmission

device analyzes said control information and outputs encoding

15   control information for controlling said encoding;

        a step where said moving picture encoding/transmission

device executes said encoding according to said encoding

control information and transmission band information

calculated from a transmitted bit stream; and

20   a step where said moving picture reception/decoding

device decodes said bit stream encoded by said encoding

according to said encoding control information; wherein

        said moving picture encoding/transmission device

performs an image refresh operation according to control

25   information from the receiving side and the transmission band.